

National Park Service

National Park Service
U.S. Department of the Interior



Northeast Region Inventory and Monitoring Program

**NatureBib Data Management
and
Data Entry Standards Manual**

DRAFT

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NatureBib Data Management and Data Entry Standards Manual

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Purpose of Document

As part of the National Park Service's (NPS) ongoing mission to provide access to and organization of information and materials of natural and cultural significance, a data management project was initiated by the NPS Inventory and Monitoring Program (I&M) to develop a Natural Resource Bibliographic Database (NatureBib) for all I&M National Parks. This document addresses specific data management and data entry standards and procedures for the online application as well as the desktop version for parks in the Northeast Region of the NPS.

NatureBib Data Management

Data Management Roles and Responsibilities

NPS Park Data Managers

- Populate NatureBib database with new records as they become available according to protocols and procedures detailed in this manual.
- Search internal NPS and external non-NPS resources for new bibliographic data for inclusion in NatureBib database.
- Periodically review and verify existing NatureBib data for uniformity, duplication, accuracy, and quality, then edit data as needed.
- Facilitate access to NatureBib database to interested NPS park staff and cooperators.
- Provide NatureBib training to interested NPS park staff on an as-needed basis.
- Inform NER NPSpecies Data Manager concerning relevant species information found in NatureBib documents for inclusion in NPSpecies database.
- Generate NatureBib reports and/or bibliographies for NPS personnel on an as-needed basis.

NPS Park Staff

- Provide NPS Park Data Managers with relevant new bibliographic data as it becomes available for inclusion into NatureBib database.
- Periodically assist in the review and verification of existing NatureBib records for accuracy, quality, and relevance.

NPS Network Data Managers

- Provide NPS Park Data Managers with new relevant bibliographic data as it becomes available for inclusion into NatureBib database.
- Periodically oversee the review and verification of existing NatureBib records for accuracy, quality, and relevance.

I & M Coordinators

- Provide NPS Park Data Managers with new bibliographic data as it becomes available from cooperators for inclusion into NatureBib database.

NatureBib Database Overview

Data Entry

Scope of Database

The NatureBib database bibliographically describes all relevant natural resource media including reports, published and unpublished, books, book chapters, data sets, maps, correspondence, journal articles, conference proceedings, dissertations, as well as other formats such as photos, slides, and museum specimen collections, which contain park-specific natural resource information. The database is populated with citations each of which includes standard bibliographic data (author, title, publication information, work length, packaging type, notes), an abstract, keywords, and specific storage location and holdings information. Also included with each bibliographic citation are NatureBib-specific data such as citation status, creation, sensitivity, and legacy information, as well as an unique Bibkey ID number.

As for the subject scope of the database, NatureBib includes all the aforementioned media related to the natural resources of each specific NPS unit. In a general sense for the purposes of NatureBib, “natural resources” includes flora, fauna, soil, air, water, rocks, and activities that affect them, such as mining, grazing, polluting, logging, and recreation (See Appendix A, *National Park Service Natural Resource Database (NatureBib) Scope*, and Appendix B, *List of NatureBib Topic Areas*, for a further description of the subject and media scope of NatureBib). The database began as a desktop application only and is now primarily an online web-based application with a secondary desktop application for use at parks.

Data Resources and Data Mining

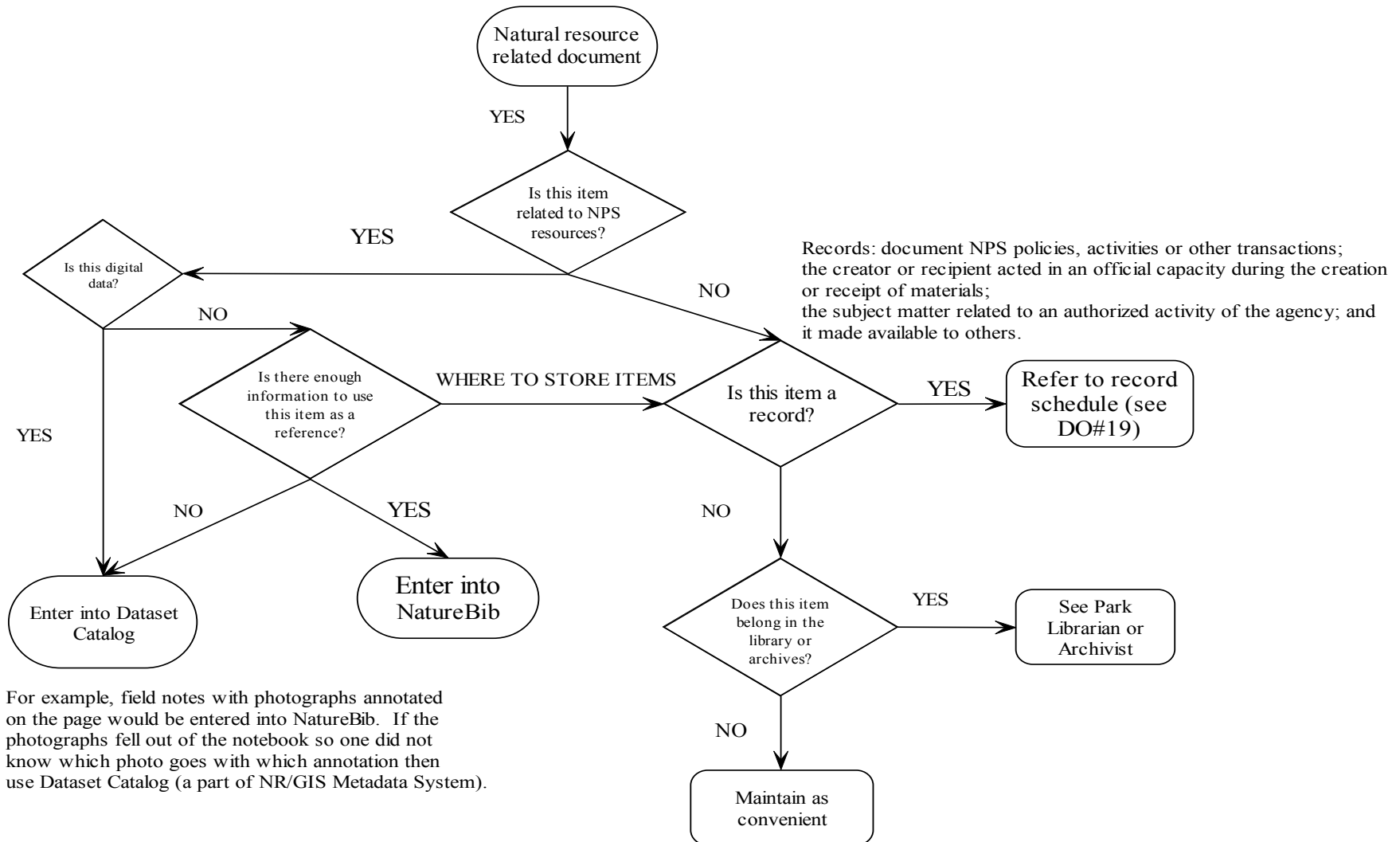
When populating the NatureBib database natural resource data are found primarily through internal NPS sources. These include Park Natural Resource Offices, Park Administration Offices, Park Libraries, NPS Network Offices, NPS Support Office Files, NPS park and service-wide databases, NPS Cooperators. Another productive source for populating the NatureBib database are external non-NPS resources. These include Federal, State, and Local Government collections and databases, University collections and databases, and Commercial Scientific Research databases, non-NPS Researchers (See Appendix C, *List of External Non-NPS Bibliographic Data Repositories*, and Appendix D, *List of External Non-NPS Commercial Scientific Databases*).

Data Input Qualification

After data mining for NatureBib records, there are a number of criteria to consider before entering a new record into the database. The following flowchart graphically outlines the initial subject/format qualification process for new bibliographic data input.

Figure 1: NatureBib Data Qualification Flowchart
(Created by Wendy Schumacher, NPS NatureBib Coordinator)

Does this item belong in NatureBIB?



Once the new bibliographic data meets the initial data input qualification criteria (outlined in the previous flowchart) and before actually entering the new data into the NatureBib database, make sure the data represents unique bibliographic data input. To avoid data duplication, search the database comprehensively by conducting different types of searches using different search strategies (i.e. simple and/or advanced searches by author, or title, or author and title, or author and date, or title and date, or author and park, or title and park, etc.). Always conduct more than one of these searches before entering any new data so as to ensure that the data to be entered does not already appear in the database and is thereby unique bibliographic data.

Now that the data has met both the initial input qualification criteria and searches have been conducted to verify it as unique, it must now, when entered into the database, conform to the NatureBib bibliographic format standards established for each field. These data input field format standards are detailed, with examples, in Appendix E, *Field-by-Field Format Guidelines for Entering New Data*. Finally, once bibliographic data is entered into a new NatureBib record there are some very basic, yet important, quality control steps to follow before submitting it to the database:

- Confirm that the data has been entered into the correct workform. In most cases the workform should be obvious (i.e. book, book chapter, conference proceedings, data set, journal article, correspondence, map, report [published or unpublished], thesis/ dissertation). In the case of bibliographic data that does not correspond with any of these workforms (i.e. photos, slides, specimen collections, etc.) enter the relevant bibliographic data into the *Other* materials workform.
- Include as much specific bibliographic data in the record as can be taken from the original document. The more specific bibliographic data that is entered, the greater the likelihood there will be in finding that specific record in future searches.
- Examine the new bibliographic data thoroughly for spelling and punctuation errors. Spelling and/or punctuation errors can significantly effect future searches and the accurate retrieval of desired records.
- In the *Keywords* field enter only the most relevant keywords that accurately describe the subject of the document. Entering only the most specific keywords will provide the most direct access to the record when searching the database. Too many keywords will group the record in a much larger retrieval list when searching. Too few keywords will cause the record to be “lost” in searches.
- Review each field to confirm that data has been entered properly, but especially examine the *Author* field to confirm its format. Along with the *Title* field, the *Author* field is the most common criteria used when searching the database. See if the author(s) to be entered have already been input into the database and, if necessary, conform to the existing data input to ensure database uniformity.

NatureBib Online Database Application

Data Entry Procedures

Searching, Viewing and Editing Records

Simple Search

As mentioned, before entering new bibliographic data searches should be conducted in order to verify that the data to be entered is unique. Once in NatureBib click on *Simple Search/Edit* in the upper window frame and the following page will appear:

The National Park Service
Inventory and Monitoring

[Simple Search/Edit](#) [Advance Search/Edit](#) [Add New Citation](#) [Change Password](#)

NatureBib

Bibliographic Citation Editing

- To search and edit an existing citation look at the left frame and decide between a **Standard Search** or an **Advanced Search**.
- Standard Search** includes the boxes in the left frame. Citations will list in the right frame after a Standard Search. Pick a citation, its details fill the right frame. [Edit Citation Data](#) is a hyperlink at the top of the detail screen.
- Advanced Search** includes the following additional search criteria: document date, up to six (6) keywords, and several parameters to narrow the search. Parameters include chapter/section, series/titles, general notes, abstracts, and specific park notes and abstracts. Citations will list in the right frame after an Advanced Search. A summary of Advanced Search criteria lists in the left frame. Pick a citation, its details fill the right frame. [Edit Citation Data](#) is a hyperlink at the top of the detail screen.

Edit an Existing Citation

• **STANDARD SEARCH:** Below pick a park(s), an office(s), a field(s) and/or a bibkey ID. Click "Search" when ready. Note: Sections are delineated by horizontal bars. Multiple choices within selection boxes use an OR condition; between selection boxes and sections an AND condition is used, unless AND/OR buttons are provided.

Pick a Park(s) (Depending on your browser, you may need to hold down the CONTROL key while clicking to make multiple selections.)

All Parks

Abraham Lincoln Birthplace National Historic Site
Acadia National Park (ACAD)
Adirondack National Historic Site (ADAM)
Agate Fossil Beds National Monument (AGFO)

Pick an NPS Office(s) (Depending on your browser, you may need to hold down the CONTROL key while clicking to make multiple selections.)

All Offices

AD, Administration (ADADMIN)
AD, Cultural Resource Stewardship & Partnership (ADCSR)
AD, Natural Resource Stewardship & Science (ADNRSS)
AD, Park Operations & Education (ADPOE)

Search by Author and/or Title: (no wildcard entries)

Author: ☐ And ☐ Or

Title:

☐ And ☐ Or

Search by Keyword: (no wildcard entries)

Key Word1: ☐ And ☐ Or

Key Word2:

Enter BibKey ID:
Enter a park(s) and bibkey ID (enter NO search words above).

BibKey ID:

From this page simple searches can be conducted by typing a search strategy into the available fields in the left window frame. Simple searches can utilize any combination of the available fields shown (*Park*, *Office*, *Author*, *Title*, *Keyword*, or *BibKey ID*) in any combination of “and/or” qualifiers. In the following example, a simple search for the author Bradley Ross was conducted, written in the Author field as “Ross, Bradley”.

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The National Park Service Inventory and Monitoring

Simple Search/Edit Advance Search/Edit Add New Citation Change Password

Pick a Park(s) (Depending on your browser, you may not see all parks. Use the CONTROL key while clicking to make multiple selections.)

- All Parks
- Abraham Lincoln Birthplace National Historic Site
- Acadia National Park (ACAD)
- Adams National Historic Site (ADAM)
- Agate Fossil Beds National Monument (AGFO)

Pick an NPS Office(s) (Depending on your browser, you may not see all offices. Use the CONTROL key while clicking to make multiple selections.)

- All Offices
- AD, Administration (ADADMIN)
- AD, Cultural Resource Stewardship & Partnership
- AD, Natural Resource Stewardship & Science (ADNR)
- AD, Park Operations & Education (ADPOE)

Search by Author and/or Title (no wildcard entries)

Author: And Or

Title:

Search by Keyword (no wildcard entries)

Key Word1: And Or

Key Word2:

Enter BibKey ID. Enter a park(s) and bibKey ID (enter NO search words above).

BibKey ID:

To view or print a report:

1. Mark individual citations by checking the box or click Mark All On Page.
2. Click Save Marked On Page to store selections before going to next page.
3. Click Report to view/print a report.
4. To print all 8 results click Report.

Mark All On Page Unmark All On Page Save Marked On Page Clear All Saved Citations: 0 Results 1 - 8 of 8 Search took 22.0 seconds.

- ☐ Klute, David S., Yahner, Richard H., Ross, Bradley D., Keller, Gregory S. 2001. Comprehensive Inventory Program for Birds at Six Pennsylvania National Parks Technical Report NPS/PHSONRTR-01/0094. U. S. Department of the Interior, National Park Service, Northeast Region, Stewardship and Partnerships.
- ☐ Rohrbaugh, Ronald W., Yahner, Richard H., Storm, Gerald L., Keller, Gregory S., Ross, Bradley D. 1997. Inventorying and Monitoring Protocols of Vertebrates in National Parks of the Eastern United States. Mammals, U. S. Department of the Interior, National Park Service, Philadelphia Support Office, Stewardship and Partnerships.
- ☐ Rohrbaugh, Ronald W., Yahner, Richard H., Storm, Gerald L., Keller, Gregory S., Ross, Bradley D. 1999. Inventorying and Monitoring Protocols of Terrestrial Vertebrates in National Parks of the Eastern United States. Hopedew Furnace National Historic Site Technical Report NPS/PHSONRTR-00/0081. U. S. Department of the Interior, National Park Service, Philadelphia Support Office, Stewardship and Partnerships.
- ☐ Rohrbaugh, Ronald W., Yahner, Richard H., Storm, Gerald L., Keller, Gregory S., Ross, Bradley D. 1999. Inventorying and Monitoring Protocols of Terrestrial Vertebrates in National Parks of the Eastern United States. Valley Forge National Historic Park Technical Report NPS/PHSONRTR-00/0052. U. S. Department of the Interior, National Park Service, Philadelphia Support Office, Stewardship and Partnerships.
- ☐ Yahner, Richard H., Klute, David S., Keller, Gregory S., Ross, Bradley D. 1999. Comprehensive Inventory Program For Birds At Six Pennsylvania National Parks. Phase II. Annual Progress Report.
- ☐ Yahner, Richard H., Storm, Gerald L., Keller, Gregory S., Ross, Bradley D. 1995. Inventorying and monitoring protocols for vertebrates in National Park areas of the Eastern United States. Valley Forge National Historic Park. progress report. Pennsylvania State University.
- ☐ Yahner, Richard H., Storm, Gerald L., Keller, Gregory S., Ross, Bradley D., Rohrbaugh, Ronald W. 1999. Inventorying and Monitoring Protocols of Amphibians and Reptiles in National Parks of the Eastern United States National Park Service Technical Report NPS/PHSONRTR-99/0078. The Pennsylvania State University.
- ☐ Yahner, Richard H., Storm, Gerald L., Keller, Gregory S., Ross, Bradley D., Rohrbaugh, Ronald W. 1999. Inventorying and monitoring protocols of terrestrial vertebrates in national Parks of the Eastern United States. Gettysburg National Military Park and Eisenhower National Historic Site Technical Report NPS/PHSONRTR-00/0080. National Park Service, Philadelphia Support Office, Stewardship and Partnerships.

After hitting *Search*, the search is conducted and the results are presented in the lower right window frame. To view any record in the list click on the record citation and a complete bibliographic record will appear in the lower right window frame.

The National Park Service Inventory and Monitoring

Simple Search/Edit Advance Search/Edit Add New Citation Change Password

Edit an Existing Citation

STANDARD SEARCH: Below pick a park(s), an office(s), a field(s) and/or a bibkey ID. Click "Search" when ready. Note: Sections are delineated by horizontal bars. Multiple choices within selection boxes use an OR condition; between selection boxes and sections an AND condition is used, unless AND/OR buttons are provided.

Pick a Park(s) (Depending on your browser, you may not see all parks. Use the CONTROL key while clicking to make multiple selections.)

- All Parks
- Abraham Lincoln Birthplace National Historic Site
- Acadia National Park (ACAD)
- Adams National Historic Site (ADAM)
- Agate Fossil Beds National Monument (AGFO)

Pick an NPS Office(s) (Depending on your browser, you may not see all offices. Use the CONTROL key while clicking to make multiple selections.)

- All Offices
- AD, Administration (ADADMIN)
- AD, Cultural Resource Stewardship & Partnership
- AD, Natural Resource Stewardship & Science (ADNR)
- AD, Park Operations & Education (ADPOE)

Search by Author and/or Title (no wildcard entries)

Author: And Or

Title:

Search by Keyword (no wildcard entries)

Key Word1: And Or

Key Word2:

Enter BibKey ID. Enter a park(s) and bibKey ID (enter NO search words above).

BibKey ID:

Report (Formal or Published) Citation

Bibkey ID: 172048 Old NRBIB Number(s): DEWA-2015

Report Title: Inventorying and Monitoring Protocols of Amphibians and Reptiles in National Parks of the Eastern United States

Authors: Yahner, Richard H. / Storm, Gerald L. / Keller, Gregory S. / Ross, Bradley D. / Rohrbaugh, Ronald W.

Series Title: No data

Report ID: National Park Service Technical Report NPS/PHSONRTR-99/0078

Publisher: The Pennsylvania State University

Place of Publication: University Park, PA

Publication Date: May 1999

Work Extent: 109 p.

Packaging Method: pages

Database Systems: NRBIB

Linked to Other Databases: No

Sensitivity: Public

Citation Status: new

Created On: 03/15/2002

Last Edited: 07/23/2002 01:13 PM by NPBIB_NEROE1

Citation Abstract: This document presents a comprehensive review of protocols for monitoring and inventorying amphibians and reptiles for eastern national parks, including DEWA, GETT, EISE, HORU, and VAFO

General Notes Regarding this Citation: black spiral bound document, includes tables of survey type data and checklists of amphibians and reptiles

Parks/Offices Linked to this Citation:

- Hopedew Furnace National Historic Site (HOFU)
- Valley Forge National Historical Park (VAFO)
- Delaware Water Gap National Recreation Area (DEWA)

Holdings Entries Linked to this Citation:

- Park/Office:** Delaware Water Gap National Recreation Area (DEWA)
- Collection:** Resource Management and Planning Office
- Created By:** NPBIB_NEROE1
- Park/Office:** Upper Delaware Scenic & Recreation River (UPDE)
- Collection:** Resource Management Office, NRBIB Files
- Call Number:** file #1632

Legacy document type data:

- None

Other Legacy Data:

- There are no legacy data for this citation.

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To edit records in the database, select from the *Edit Citation Data* for the upper right corner of the search result window (previous screen shot). In doing so, the following window will appear:

The screenshot shows a web browser window titled "NatureBib Edit - Microsoft Internet Explorer". The address bar shows a URL from the National Park Service. The page is titled "The National Park Service Inventory and Monitoring". It features a "Report (Formal or Published)" dropdown menu and a "Submit" button. The main content area is divided into several sections for editing citation data:

- Add/Edit/Delete Authors:** A list of authors with hyperlinks to edit or delete them. A "New" button is at the bottom.
- Add/Edit/Delete Keywords:** A list of keywords with hyperlinks to edit or delete them. A "New" button is at the bottom.
- Link/Edit/Unlink Parks and Park-Specific Data:** A list of parks with hyperlinks to link, edit, or unlink them. A "Link/Unlink" button is at the bottom.
- Add/Edit/Delete Holdings Data:** A list of holdings with hyperlinks to edit or delete them.

On the right side, there is a "Report (Formal or Published) Citation" section with a "Notes" box. Below the notes are various input fields and dropdown menus for citation details:

- Final Bibkey ID:** A text input field.
- Citation Status:** Radio buttons for "New" and "Deleted".
- Report Title:** A text input field.
- Report ID:** A text input field.
- Publisher:** A text input field.
- Place of Publication:** A text input field.
- Publication Date:** A text input field.
- Length:** A text input field.
- Page Count:** A text input field.
- Package Method:** A text input field.
- URL of Online Document:** A text input field.
- Topic Area:** A dropdown menu.
- Citation System:** A dropdown menu.
- Series Title:** A text input field.
- General Notes Regarding this Citation:** A text area.
- Citation Abstract:** A text area.
- Sensitivity:** Radio buttons for "Public", "NPS Only", and "Park/Office Only".
- Buttons:** "Submit Edits", "Clear Edits", and "Back".

Data in any of the existing record fields can now be edited by either clicking on a link to edit the existing data, clicking on a button to add new data, or by typing/erasing existing data in text boxes.

IMPORTANT NOTE: It is strongly recommended that only one person at any given park, preferably the NPS Park Data Manager, should have editorial authority. Existing data should only be edited if there is a significant reason for doing so such as the addition of more specific bibliographic data, serious spelling and/or punctuation errors to be corrected, or author/title clarification and revision.

Advanced Search

In some cases in order to confirm that new bibliographic data is unique, an *Advanced Search* should be conducted. First click on the *Advanced Search/Edit* link in the upper window frame and the following screen will appear:

The screenshot shows the 'Advanced Search for an Existing Citation' interface. It includes sections for selecting a Park, NPS Office, Document Type, and Project Database. There are also input fields for Author, Title, Year, and Keywords, along with a Topic Area selector. The interface uses radio buttons to specify logical operators (And, Or, Not) between different search criteria. A 'Search' button is located at the bottom right of the form.

In this window a much more complex search strategy can be created allowing for a more accurate rate of data retrieval. Advanced searches can utilize any combination of the available fields shown by either selecting search options from pull down menus (*Park, Office, Document Type, Database, or Topic Area*) or by typing search options into text boxes (*Author, Title, Keyword, Year, or selected search criteria*) again in any combination of “and/or” qualifiers. It is always a good practice to search using both a *Simple Search* and *Advanced Search* when attempting to verify unique bibliographic data.

Adding Records

When adding new bibliographic data to the NatureBib database is strongly recommended that data entered via the online application instead of the desktop application. This allows for a more timely and current bibliographic data set. When

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adding new bibliographic data first click on the *Add New Citation* link in the top window frame. The following screen will appear:

The screenshot shows a web browser window titled "Search/Edit NatureBib Documents - Microsoft Internet Explorer". The address bar shows the URL "https://science1.nature.nps.gov/naturebb/BIIF". The page header includes "The National Park Service" logo and "Inventory and Monitoring". Below the header are links: "Simple Search/Edit", "Advance Search/Edit", "Add New Citation", and "Change Password". The main content area is titled "Add a New Citation Entry:" and contains a list of document types: "Book", "Chapter or Section (of book or report)", "Conference Proceedings", "Data Set", "Journal Article", "Letter/Correspondence", "Map", "Other", "Report (Formal or Published)", "Report (Informal or Unpublished)", and "Thesis/Dissertation". A "Submit" button is at the bottom of this list. To the right, a section titled "NatureBib" contains the heading "Adding a New Bibliographic Citation" and a bullet point: "To add a new citation to the database, select a workform type under 'Add a New Citation Entry' located in the left-hand frame and click the 'Submit' button."

In the lower left window select the appropriate workform and click *Submit* and a new workform will appear. In this example the *Report (Formal or Published)*, was selected and the following screen appears:

The screenshot shows the "Report (Formal or Published)" form in the NatureBib web application. The form is titled "Report (Formal or Published)" and has a "Submit" button. On the left side, there are sections for "Add/Edit/Delete Authors", "Add/Edit/Delete Keywords", "Link/Edit/Unlink Parks and Park-Specific Data", and "Add/Edit/Delete Holdings Data". The main form area contains fields for "Final Biblikey ID (if this is a duplicate)", "Citation Status" (New or Deleted), "Report Title", "Report ID", "Publisher", "Place of Publication", "Publication Date", "Length", "Packaging Method", "pages", "URL of Online Document", "Topic Area" (a dropdown menu with options: agriculture, air quality, animal studies, aquatic science, archeology), "Database System from which this Citation Originates" (a dropdown menu with options: NRBIB, ARBIB, CRBIB, DEERBIB, GRBIB), "Series Title", "General Notes Regarding this Citation", "Citation Abstract", "Sensitivity" (Public, NPS Only, or Park/Office Only), and "Submit Edits" and "Clear Edits" buttons.

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Data can now be entered in any of the existing record fields by either clicking on a button (that open up specific field text boxes or data lists) to add new data as found in the lower left window frame, or by typing new bibliographic data into text boxes or selecting data from scrolling lists as found in the lower right window frame. Examples of specific field text boxes or text lists that appear when clicking buttons in the lower left window screen are as follows:

Adding New Author Data

NatureBib Author Edit - Microsoft Internet Expl...

File Edit View Favorites Tools Help

BIBKey ID: 0

*Click on the **Author** hyperlink for help on entering the associated data. Press the NEXT button to submit this author and go to a blank screen for entering the next author. Press the SUBMIT button to submit this author and close this window.*

[Author](#)

Last name (or "author unknown" or complete organization name):

First/middle names (or initials):

Done Internet

Adding New Keyword Data

NatureBib Keyword Edit - Microsoft Internet Ex...

File Edit View Favorites Tools Help

BIBKey ID: 0

*Click on the **Keyword** hyperlink for help on entering the associated data. Press the NEXT button to submit this keyword and go to a blank screen for entering the next keyword. Press the SUBMIT button to submit this keyword and close this window.*

[Keyword](#)

Done Internet

Linking Park Data

NatureBib Park Link Form - Microsoft Internet Explorer

File Edit View Favorites Tools Help

BIBKey ID: 0

*Highlighted parks are already linked to this citation. Deselect them to unlink. Non-highlighted parks are not linked to this citation. Select them to link. Parks marked with a * are linked in NPSpecies. Please unlink in NPSpecies before unlinking here. Both lists are restricted to parks/offices you have edit access to. (Depending on your browser, you may need to hold down the SHIFT or CONTROL key while clicking to make multiple selections):*

☐ Minute Man National Historical Park (MIMA)
☐ Mississippi River Corridor Study Comm. (MRCC)
☐ Morristown National Historical Park (MORR)
☐ Museum Resource Center Center (MCR)
☐ NER Land Resources Project Center Center (NELO)

Done Internet

Adding Park Holdings Data

The screenshot shows a web browser window titled "NatureBib Holdings Edit - Microsoft Internet Explorer". The address bar shows a URL starting with "http://". The menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The main content area has a light beige background with a subtle pattern. At the top, it says "BIBKey ID: 0". Below this is a paragraph of instructions: "Click on any field name hyperlink for help on entering the associated data. Press the NEXT button to submit this holdings entry and go to a blank screen for entering the next one. Press the SUBMIT button to submit this holdings entry and close this window." A dropdown menu is labeled "Select the park or office for this holdings entry. List is restricted to parks/offices you have edit access to:" and currently shows "Acadia National Park (ACAD)". Below the dropdown are four input fields: "Collection:" (with a hyperlink), "File Code:" (with a hyperlink), "Call Number:" (with a hyperlink), and "ANCS+:" (with a hyperlink). There is also a "Location:" label followed by a large text area. At the bottom of the form are four buttons: "Next", "Clear Edits", "Submit", and "Close". The status bar at the bottom shows "Done" and "Internet".

Once all relevant new bibliographic data has been entered into the workform click on the *Submit Edits* button on the original new workform screen to save the record into NatureBib.

NatureBib Desktop Database Application

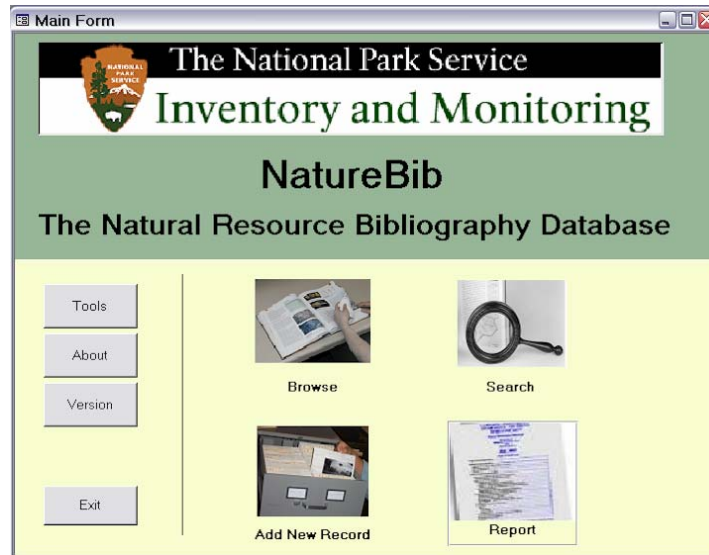
Database Procedures

Searching and Viewing Records

When working with the MS Access-based desktop version of NatureBib, the bibliographic data set for searching and viewing records will usually be the data set for a given park only. The desktop version allows parks the opportunity to search and view records from their own bibliographic data set without having to search through the much larger bibliographic data set online that encompasses all I&M parks. As for editing records in the desktop version, it is strongly recommended that all editing, as well as adding records, be done via the online database.

When opening the desktop version, from the opening window select *Tools* to link to the appropriate bibliographic data set.

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From the *Tools* menu screen find the appropriate bibliographic data set by browsing and click *Link Files* to open the database



Now back on the opening window screen select *Browse* and the following window will appear:



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All the records in the database will appear in the lower scrollable list at the bottom of the screen and available *Quick Search* options will appear in the upper frame (*Authors, Titles, Copyright Date, Keywords, Marked List, and Workforms*). By selecting any of these *Quick Search* options a scrollable list of those field will be displayed in the upper center text box. To view any record, click on the *Open Record* button beside the record citation in the lower scrollable list.

To search the database, click on the *Search* button at the top of the screen and the following window appears:

The screenshot shows a window titled "Search Form" with a green header bar containing "Main Menu", "Browse", "Search", and "Marked Report". Below the header, there are four search criteria sections, each with a "None" dropdown, a text box, and "and/or" and "Run" buttons. A "RUN" button is also present. To the right, there are "Sort by:" options (Author, Year, Title) and buttons for "Add New Record", "View Records", "View Marked", "Mark All", and "UnMark All". A "Refresh Screen" button is also visible. Below the search area is a table of records with columns: Marked, Author, Year, Title, BIBKEY ID, Workforms, and Park Code. The table lists 10 records, each with an "Open Record" button to its left. The status bar at the bottom shows "Record: 147 of 28510".

Marked	Author	Year	Title	BIBKEY ID	Workforms	Park Code
<input type="checkbox"/>	Melvin, Scott,	1984	1984 Summary Report - Massachusetts Inventory of Breeding Piping Plovers, American Oystercatchers, and	3176	Report (Formal or	CACD
<input type="checkbox"/>	Simon, Harvey,	1985	1984 Water quality sampling program, Division of Professional Services, Natural Resource Laboratory,	3180	Report (Formal or	GATE
<input type="checkbox"/>	Emery, Jeffrey C.,	1985	1985 annual report on air quality in the state of Maine	3186	Report (Formal or	ACAD
<input type="checkbox"/>	Cowperthwaite, Leslie,	1986	1985 annual summary of research on the social behavior of mother-pup harbor seals, Phoca vitulina concolor, in	3188	Report (Formal or	ACAD
<input type="checkbox"/>	Sanchini, Paula J.,	1985	1985 biomonitoring studies and Shenandoah mortality studies	3193	Report (Formal or	SHEN
<input type="checkbox"/>	Morris, Arthur,	1986	The 1985 fall shorebird season at Jamaica Bay Wildlife Refuge.	3196	Journal Article	GATE
<input type="checkbox"/>	Fort Necessity National Battlefield,	1985	1985 gypsy moth report: Fort Necessity National Battlefield	3202	Report (Formal or	FONE
<input type="checkbox"/>	Peterson, David M., Utwin, Thomas S.,	1986	1985 Long Island colonial waterbird and piping plover survey.	3207	Report (Formal or	GATE
<input type="checkbox"/>	North, David and Peterdi, Gwyn,	1985	1985 peregrine falcon release effort : Jordan Cliffs, Mount Desert Island, Acadia National Park, Maine	3213	Report (Formal or	ACAD

From the pull down field lists at the top of the window a search strategy can be constructed by entering data to be search in specific fields in the text boxes immediately to the right of each pull down field list. These search option can then be linked with "and/or" qualifiers. Once a search strategy is constructed click the *Run* button and the search is conducted and the results appear in a scrollable list of record citation in the lower half of the window.

Appendix A: National Park Service Natural Resource Database (NatureBib) Scope
(Compiled from Marilyn Ostergren, former NPS NatureBib Coordinator)

Subject scope of materials to be included:

"All materials related to the natural resources of the park/monument/historic site"

"*natural resources*": flora, fauna, soil, air, water rocks, and activities that affect them (i.e. mining, grazing, air or water pollutants, logging, farming, recreational activities...).

"*related to the park*": resources within the park itself, or within the region (the region will vary, for example, the region for mammals/birds/plants may be the valley or forest the park is in, while the region for geology might be a larger area which may include a given rock formation).

Format scope of materials to be included:

"Include any and all documents that convey significant and relevant information"

"*all documents*": reports, published and unpublished, books, book chapters, data sets, maps, correspondence, journal articles, conference proceedings, dissertations, as well as other formats such as photos, slides, and museum specimen collections.

Scope of materials not to be included:

Geographically, documents which cover a very large region that goes well beyond the park (i.e. the entire state), unless there is a section specific to the park, or entries in the document for the park.

Documents which generally describe a resource of the park (i.e. a certain animal that lives there), but it isn't clear as to a specific location.

Documents which are for the general public and contain no potentially new information (i.e. general subject matter that would be contained in documents such as newspaper articles, pamphlets, popular magazine articles, field guides, etc). Documents should reflect a research-level orientation.

NatureBib is not intended to be an inventory of the park's library collection, instead this database should only contain park-specific natural resource. To find more general information they can consult the park's library or other larger library collections. There are a lot of gray areas. Lean on the side of including documents if they seem relevant. Be especially generous with unpublished materials that may not exist anywhere else, and more stingy with published material that can be found in a typical university or public library collection.

Appendix B: List of NatureBib Topic Areas
(Compiled from NatureBib Website)

Agriculture	Air Quantity
Animal Studies	Archeology
Atmospheric Studies	Birds
Cave (Flora/Fauna)	Cave (Karst)
Climatology	Coastal-Marine Systems
Contaminants/Hazardous Materials	Database/Information Systems
Erosion-Sedimentation	Ethnology
Exotic/Invasive Species-Animals	Exotic/Invasive Species-Plants
Fire	Fish
Fisheries Management	Flood Management/History
Forestry	Geology
Geomorphology	Geophysics
GIS	Glaciology
Hydrology (General)	Hydrology (Surface)
I&M	Integrated Pest Management
Inventory	Invertebrates
Limnology	Mammals
Management	Management/Administration
Microbiology	Minerals Management
Monitoring	Night Sky/Light Pollution
Non-Vascular Plants	Oceanography
Other	Paleontology
Petrology/Mineralogy	Physical Sciences
Plant Communities	Plant Studies
Range Management	Recreation/Aesthetics
Reptiles	Restoration-Cultural
Restoration-Natural	Sedimentology/Stratigraphy
Sociology	Soil Sciences
Soundscape	Tectonics
Threatened-Endangered-Sensitive Animals	Visitor Impacts
Volcanology/Geothermal	Water Quality
Water Rights	Watershed Management
Wetland/Riparian	Wildlife Management

Appendix C: List of External Non-NPS Bibliographic Data Repositories

Bureau of Land Management Library (<http://207.67.203.45/b10109/>)

The BLM Library has over 40,000 volumes and over 250 periodical subscriptions in its collection. These materials cover all aspects of land management, natural resources, minerals, computer science, and administration.

Conserve Online [The Nature Conservancy] (<http://www.conserveonline.org/>)

ConserveOnline is an online library of documents pertaining to conservation science and practice. This site also has discussion groups, maps and spatial data, and provides access to large repositories of conservation information housed at other organizations.

EPA Headquarters Library (<http://www.epa.gov/natlibra/ols.htm>)

OLS is the Online Library System for the Library Network of the United States Environmental Protection Agency. It consists of several related databases that can be used to locate books, reports, and audiovisual materials on a variety of topics.

GrayLit Network (<http://www.osti.gov/graylit>)

The GrayLIT Network is the world's most comprehensive portal to U.S. Federal gray literature.

Library of Congress (<http://catalog.loc.gov/>)

The Library of Congress Online Catalog contains approximately 12 million records representing books, serials, computer files, manuscripts, cartographic materials, music, sound recordings, and visual materials.

NOAA Central Library (<http://www.lib.noaa.gov/>)

Online library catalog of the NOAA research collection with a comprehensive coverage of hydrographic surveying (from 1820), oceanography, meteorology, hydrology (from 1870), living marine resources (from 1970 with selected coverage from 1870), and meteorological satellite applications (from 1960).

National Agricultural Library [AGRICOLA] (<http://agricola.nal.usda.gov/>)

AGRICOLA (AGRICultural OnLine Access) is a bibliographic database of citations to the agricultural literature created by the National Agricultural Library (NAL) and its cooperators. The database covers all aspects of agriculture and allied disciplines, including animal and veterinary sciences, entomology, plant sciences, forestry, aquaculture and fisheries, farming and farming systems, agricultural economics, extension and education, food and human nutrition, and earth and environmental sciences.

National Technical Information Service (<http://www.ntis.gov/search/index.asp?loc=3-0-0>)

The National Technical Information Service (NTIS) is the largest central source for U.S. government-sponsored scientific, technical, engineering, and related business information. NTIS has over 3 million information titles in its collection.

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Smithsonian Institution Libraries (<http://sirius-libraries.si.edu/#focus>)

The Smithsonian Institution Libraries unites 20 libraries into one system supported by an online catalog of the combined collections. It maintains publication exchanges with more than 4,000 institutions worldwide that supply Smithsonian scientists and curators with current periodicals, exhibition catalogs, and professional society publications.

U.S. Army Corps of Engineers Library (<http://lepac1.brodart.com/search/um/>)

CELIO (Corps of Engineers Library Information Online) is the database/electronic catalog representing the collections of all the libraries within the U.S. Army Corps of Engineers. They are located throughout the United States. You may search the collective database or the collection of one specific library.

U.S. Department of the Interior Library (<http://library.doi.gov/>)

The U.S. Department of the Interior Library has collections centered on documents produced by or for the Department, as well as a broad range of related books, journals, and other resources that support the Department's efforts to protect and provide access to the Nation's natural and cultural heritage.

U.S. Fish and Wildlife Service,

National Conservation Training Center Conservation Library (<http://library.fws.gov/>)

Online access to the U.S. Fish and Wildlife Service's National Conservation Training Center library which collects natural resource materials concerning the conservation of fish, wildlife, plants, and their habitats.

U.S. Forest Service Library (<http://sirsi.fs.fed.us/uhtbin/webcat>)

The U.S. Forest Service's online catalog contains over 190,000 records of natural resources literature, over 55,000 records and links to Forest Service Research publications dating back to 1904, over 11,000 records for other Forest Service publications, and over 6,700 links to full-text publications.

U.S. Geological Survey Library (<http://library.usgs.gov/>)

The U.S. Geological Survey (USGS) Library is the largest library for earth sciences in the world. The library system includes four libraries which comprise over one million books and journals, 450,000 maps, 370,000 microforms, 270,000 pamphlets, 250,000 black-and-white photographs, 50,000 color transparencies, 15,000 field record notebooks, and 250 videocassettes. Materials include USGS publications as well as those produced by state and foreign geological surveys, scientific societies, museums, academic institutions, and government scientific agencies.

University Catalogs [via Library of Congress] (<http://lcweb.loc.gov/z3950/gateway.html>)

Provided via the Library of Congress' Z39.50 Gateway, this is an extensive list of over 500 links to national and international university, research, public, and government library catalogs.

Appendix D: List of External Non-NPS Commercial Scientific Databases

AGRICOLA (agriculture & related sciences)

Covers agriculture and related subjects including animal and plant science, entomology, agronomy, horticulture, rural sociology, agricultural economics, family living, food and nutrition.

AMS E-Journals (meteorology)

Full text access to the American Meteorological Society Journals Online. Coverage is from 1997 to the present.

Annual Review of Anthropology

Annual Reviews provides access to critical review articles that synthesize primary research literature in Anthropology. The database contains full-text articles from 1996-present and tables of contents for 1984-1995.

Anthropological Literature

Historic and current anthropology and related disciplines including geography, art, genetics, ethnohistory, religion, folklore, psychology, archaeology, and demography.

Aquatic Sciences Fisheries Abstracts

The Aquatic Sciences Collection provides comprehensive information on the science and technology of marine, freshwater, and brackish water organisms and environments from 1978 to the present.

Biological Abstracts

Biological Abstracts is the premier database for the biological sciences and includes information on biochemistry, microbiology, human biology, physiology, botany and zoology.

Biological and Agricultural Index

This index cites articles from more than 240 English-language periodicals published in the United States and elsewhere. Periodical coverage includes a wide range of scientific journals, from popular to professional that pertain to biology and agriculture.

Cambridge Scientific Abstracts

CAB Abstracts covers research and development literature in the fields of agriculture, forestry, aspects of human health, human nutrition and food science, animal health and the management and conservation of natural resources

Dissertation Abstracts

Dissertation Abstracts is the primary source for 1.4 million doctoral dissertations (and selected master's theses) from over 1000 North American and European universities.

Elsevier ScienceDirect (full text journal articles)

This system provides access to the electronic versions of the Elsevier journals. Currently, it includes more than 1,200 journals. The full text collection contains over 1.5 million articles from 1995 to present across all fields of science.

Environmental Sciences Pollution Management

The Environmental Sciences Collection provides abstracts and references to the literature covering all areas of air, land, water, and noise pollution as well as bacteriology, ecology, toxicology, risk assessment, environmental engineering, environmental biotechnology, waste management, and water resources from 1981 to the present.

GEOBASE

GEOBASE contains citations and abstracts to worldwide literature on geography, geology, ecology, international development, energy, hydrology and related disciplines.

GeoRef (geoscience literature)

Provides access to the geoscience literature of the world. GeoRef contains over 2 million references to geoscience journal articles, books, maps, conference papers, reports, theses and dissertations.

Meteorological and Geoastrophysical Abstracts

Provides international access to the world's meteorological and climatological literature, including atmospheric chemistry and physics, physical oceanography, hydrology, glaciology, and related environmental sciences. Indexes articles, book chapters, and conference proceedings.

Oceanic Abstracts

Oceanic Abstracts is focused exclusively on worldwide technical literature pertaining to the marine and brackish-water environment.

Pollution Abstracts

Covers scientific research relating to all forms of pollution, including air, waste, radioactive material and toxic emissions, as well as land and noise.

Science Citation Index (SCI)

Provides access to articles from over 3,200 journals in all areas of the sciences and technology. SCI also includes reviews, letters, and other document types.

Springer-Verlag Journals (full text science articles)

Springer-Verlag. Journals cover the fields of chemistry, economics, engineering, environmental sciences, geosciences, life sciences, mathematics, medicine, and physics.

Water Resources Abstracts

Provides summaries of the world's technical and scientific literature on water-related topics covering characteristics, conservation, control, pollution, treatment, use and management of water resources.

Appendix E: Field-by-Field Format Guidelines for Entering New Data
(Compiled by Nicole Jackelen and Wendy Schumacher, NPS Bibliographic Coordinator)

Abstract

Enter a brief description of the content of the document that will help a user determine its usefulness. Avoid copying journal abstracts or prefaces verbatim. Focus instead on interesting points, and attempt to summarize and/or interpret the contents by providing answers to questions such as "who," "what," "where," "when," "why," and "how." Sensitive citations can have descriptive content information without compromising the sensitivity level of the document. Be specific. For example, mention that the article contains nest locations without revealing their exact positions in the abstract.

Author

Personal Author

Provide the *Lastname* in the last name field, *Firstname* and Middle Initial, if available, in the first name field. Avoid use of diacritical marks such as umlauts, slashes, and accents. If the author is not known, enter *author unknown* in the last name field. Type the first character of each name in upper case and all other characters in lower case. Put a period after each initial. Do not include prefixes such as "Mr.," "Mrs.," or "Dr."

For example:

Tucker, Marianne
Mech, L.D.
Alders, Alexander G.J.
Cooper-Smith, Montgomery P.

Corporate Author

Enter the name of the corporate author in direct order in the last name field.

For example:

National Park Service
U.S. Forest Products Laboratory
Colorado State University
Department of Agriculture, National Forest Service
National Geographic

Use abbreviations for "United States" (US), but not for individual states. Do not write US if the author is clearly a Federal entity.

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For example:

National Park Service
US Environmental Protection Agency
Ohio Environmental Protection Agency

NOTE that the Map workform uses the term "Cartographer" in place of Author.

NOTE that Author is used for the author of the letter or correspondence in the Letter workform.

NOTE that an unlimited number of authors may be entered in either application.

Citation Origin

The Citation Origin enables searching by a particular area or subject specialty. Since NatureBib is comprised of several natural resource-related bibliographies the Citation Origin gives a subject area expert a place to put their citation in the event that there was a split of databases. Select the Database System(s) from which this Citation Originates from the list provided.

For example:

ARBIB Air Resources Bibliography
CRBIB* Cultural Resources Bibliography
DEERBIB Deer Bibliography
GRBIB Geologic Resources Bibliography
NRBIB Natural Resources Bibliography
OTHERBIB Used to compile citation information that falls out of the domain of the other bibliographies.
PALEOBIB Paleontology Bibliography
WRBIB** Water Resources Bibliography

NOTE *CRBIB is temporarily available through NatureBib. When CRBIB is accessible a download of the CRBIB citations in NatureBib will be exported.

NOTE **WRBIB is maintained separately, and data is uploaded periodically.

Date Of Copyright

Enter the four digit Copyright date as it appears on the referenced work.

For example:

2001
1967

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Citations are sorted by the four digit date. Leave this field empty if the Copyright date cannot be ascertained.

Date Of Meeting

Used for the date that a meeting or conference was held. Enter complete dates, including month, day, and four digit year if available. Enter the date as it appears on the work.

For example:

January 1, 2001.
1926
Nov 1984

Use a question mark (?) to enter an unknown date.

For example:

August-September 195?
Fall 19??
March 2, 1936?

Enter date ranges with a hyphen.

For example:

February 26, 1979-March 1, 1979
June 19-24, 1998
Sep-Oct 1988
Summer 1946

Date Of Publication

Enter complete dates, including month, day, and four digit year if available. Enter the date as it appears on the work.

For example:

January 1, 2001.
1926
Nov 1984

Use a question mark (?) to enter an unknown date.

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For example:

195?

August 19??

1936?

Enter date ranges with a hyphen. For example:

February 26, 1979-March 1, 1979

Sep-Oct 1988

Summer 1946

NOTE that "Date" in the Letter workform refers to the date that the letter was written.

Edition, CODEN, Series Volume ID, Author Affiliation, ISSN, ISBN

Enter unique identification information for published works.

For example:

Edition

Used for identification of a different form or version of a title. It can also reference an item number. Enter the information as it appears on the referenced work.

2nd ed.

Reprint of 1932

1st

version 7.0

Research Monograph No. 3

CODEN

CODEN is a unique and permanent alphanumeric code assigned by the Chemical Abstracts Service for the identification of scientific and technical serial titles. Enter the code as it appears on the work.

For example:

GRANR8

SSTEAU

Series Volume ID

The primary designation used by the publisher to identify a series.

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For example:

A Fur Trade Series
Empire State Historic Publications Series No. 66
Technical Report Series No. 20
Series No. 736

Author Affiliation

Used for the name of the organization or corporate body, including department or division, where the author was located when the work was created. This can include city, state, and country.

For example:

University of Nevada System, Desert Research Institute, Center for Water Resources
Research
Information Technology, IBM, Minneapolis, MN
State of Wisconsin, Dept of Health and Family Services, Madison, WI

ISSN

The International Standard Serial Number (ISSN) provides unique identification of serial publications. Enter the ISSN as it appears on the work.

For example:

0012-6743

ISBN

The International Standard Book Number (ISBN) provides unique identification of the published item, the publisher, and the country of publication. Enter the ISBN as it appears on the work.

For example:

0-12-673450-3

Extent Of Work

Used in conjunction with Packaging Method. Enter the numeric part of the physical description of the size of the referenced work. The remaining information such as "pages," "leaves," "cassettes," etc. is entered in the Packaging Method field. If you need to include more than one physical form, include additional extent and packaging methods

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after the first one, supplying necessary punctuation. [This is shown in the example for Packaging Method]

For example:

In "vii, 229 p." the "vii, 229" is the Extent of Work, and the "p" is the Packaging Method. In "16 leaves", the "16" is the Extent of Work, and the "leaves" is the Packaging Method.

Issue Identification

Used to identify subunits of information for the Volume identification field.

For example:

In "North American Indian trade silver, volume I, part 2" "North American Indian trade silver" is considered the Title, "volume I" is considered the Volume, and "part 2" is considered the Issue.

In "Journal of Sedimentary Petrology 6(4):46-53" "6" is the Volume number, "4" is the Issue number, and "46-53" is the page range.

For maps the issue identification is the alphanumeric following the series name. In U.S. Geological Survey Geologic Quadrangle Map GQ-1544 "GQ-1544" is the Issue Identification.

Additional examples include:

5
5, Serial No. 67
5, Pt. 3
Suppl. 7
No. 2
Sheets 9-11

Keyword

Enter identification terms, keywords, or phrases that describe the subject content of the referenced work.

For example:

Dredged material
Dredging

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Certain topics such as geographical areas warrant the use of greater specificity and/or local terminology to aid in information retrieval. In such instances enter park related or park specific terms and/or keywords.

For example:

An article about the Cades Cove area in Great Smoky Mountains National Park may include the keywords "Cades Cove." Do not include information available elsewhere from picklists like park name, parkcode and workform.

NOTE that asterisk (*) wildcard searching enables users to search for variations on words by finding words with differences on several letters at the beginning or end of a word.

For example

:

"grass*" will retrieve all records containing the words grass, grasses, grassland, grasslands, etc.

"*and" will retrieve all records with words like sand, land, and band.

NOTE that an unlimited number of keywords may be entered in either application.

Language

Enter the language in which the referenced work was written.

For example:

Sanskrit

English

Mandarin

Larger Work Citation

Larger work citation refers to the bibkey_id of the work for which the map or dataset supports. This is a numeric field.

Location

Enter the Storage Location, Call Number, Collection, File Code, and ANCS+ number for the referenced work.

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For example:

Location

Enter detailed, descriptive information pertaining to the physical location of the item:

"resource management files, file cabinet A, third drawer, folder 'Visitation'"

"wildlife biologist's office, stack of papers labeled 'Tree frogs'"

"general stacks, oversize, section 'Air quality'"

Call Number

Enter call numbers if available, including any phrases:

Y 12.Sci2

667.3 BER

HB66.2 1983

Collection

Enter information to establish association or connection to a larger collection if available:

1

"Science and technology"

"Audio-visual"

Park Code

Enter the park code or office code from the pull down menu signifying at which park this copy is being held.

File Code

Enter the file code from Director's Order #19, Appendix B or General Records Schedule.

ANCS+

Enter the cataloging number from ANCS+ for cross-reference.

Packaging Method

Used in conjunction with Extent of Work. Select the material form in which the information is presented from the list provided.

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For example:

In "342 negatives", "342" is the Extent of Work, and "negatives" is the Packaging Method.

NOTE Do not capitalize the first letter. Forms may be abbreviated for simplicity.

For example:

pages, or pp.
negatives, or negs.
transparencies, or trans.
cassettes, or cass.
sheets
slides
videotapes

If you need to include more than one physical form, include additional extent and packaging methods after the first one, supplying necessary punctuation.

For example, the entries for 1 videotape; 289 pages" would be:

Extent of Work 1
Packaging Method videotape, 289 pages

Include information about accompanying material if applicable.

For example:

Extent of Work 2
Packaging Method cassettes. Accompanied by: 1 booklet.

Pages

Enter the page number or range of pages for individual chapters, sections, journal articles, etc. Enter full page numbers.

For example:

210-213
195
96-114

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Park Code

Select the appropriate Park or Office Code from the list provided. This should be the park or office code about which this document relates. Enter the park or office code for holdings or location in the LOCATION field.

NOTE that an unlimited number of park/office codes may be entered in either application.

Place Of Meeting

Used for the location of a meeting, conference, etc. Enter the city and state or country where the meeting was held.

For example:

Denver, CO
Cardiff, Wales
Denali National Park and Preserve, Denali, AK

Place Of Publication

Enter the city or the place where a work was created. If the city is not well known or is found in more than one country include the state or country.

For example:

Seattle
Toronto
Cambridge, MA
Cambridge, England

In cases of unpublished material, enter as much information as possible, including the city and state where applicable.

For example:

Abraham Lincoln Birthplace National Historic Site, Hodgenville, KY
San Diego State University, San Diego

Publisher Name

Enter the name of the individual, organization, or university responsible for making the work available to the public.

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For example:

Charles Scribner & Sons
Goddard College
Yale University Press
University of Kentucky, School of Engineering
National Geographic

Leave this field blank if there is no indication of the organization responsible for producing the document.

Notes

Used for personal notes or comments, including phrases that provide uniqueness or clarity, or to identify related works. Enter information here that doesn't fit any other field.

For example:

"Contract number NPS-900X"
"Contracts CX 8000-4-0031 & CX 8000-6-0034"
"Contribution No. CPSU/UNLV 008/11"
"There is no publication date on this document but it makes reference to fieldwork conducted in 1981."
"This is number 28 of 100 titles published."
"This is Vol. I Great Plains"
"Title name change: from Contributions to Geology (vol. 1, no. 1-vol. 32, no. 2) to Rocky Mountain Geology"
"Cover title"

Report Identification

Enter the complete alphanumeric code that uniquely identifies the report.

For example:

CR987X
GSA Special Paper No. 21
Technical Report NPS/MAR/NRTR-92/053
Bulletin No. 47

Reproduction Ratio

Used for Maps. Enter the ratio of the map scale.

For example:

1:500000

1"=1 mile

Sensitive

Enter the sensitivity level for the referenced work by indicating whether it can be viewed by the public, if it should be limited to National Park Service staff, or if it should be restricted to an individual park or office.

3 as Public access

2 as NPS staff only

1 as individual Park

NOTE that the Sensitivity Level of anything in the public domain, such as journals and books, is a "3."

NOTE that the default is Public access or "3."

Series Name

Used for Maps. Indicate whether the referenced work is part of a series. Enter the uniform title and/or numbering used by the publisher.

For example:

Georgia Topographic Series

Birds of Rocky Mountain National Park, no. 7

series 7

Size

Enter the physical dimensions, format or duration of the referenced work.

For example:

16 mm.

28 cm.

2x2 in.

90-minutes

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44x44 in.

96x48 cm.

Title

Enter titles in "sentence style," which means that only the first word of the title (and subtitle) and proper nouns are capitalized. Field size is limited to 250 characters so addition title information should be put in the General Notes field.

For example:

101 uses for mushrooms

Tennessee state trails and waterways

Wilderness and the American mind

Include any parallel or subordinate title following a colon. Enter characters such as a semicolon or comma as they appear in the title.

For example:

The unsettling of America: Culture & agriculture

Plants of Samoa: A guide to their local and scientific names with authorities; with notes on their uses, domestic, traditional and economic

If more than one title appears (i.e. a book in a series, a chapter in a book, a conference paper or journal article, etc.) see the following examples:

Book title: The American lakes series

Series title: Lake Superior

Proceedings title: Proceedings of the Gulf and Caribbean Fisheries Institute

Paper title: Status report of Florida's research on spiny lobster biology

Journal title: National Parks & Conservation Magazine

Article title: Agate fossil beds: A page from the past

In the Letter workform, the Title is used for the subject line of the correspondence, or the recipient (individual or group) of the communiqué.

For example:

Guadalupe Mountains National Park employees

Alexander Meyer, Park Technician, Acadia National Park

Public Notice: To Whom It May Concern

Zebra Mussel Conservation Partnership Members

Planning meeting of the TRNP bighorn sheep natural resource preservation program initiative

Topic Areas

Select the Topic Areas that apply to the referenced work from the list provided. This field links the Investigator's Annual Report to NatureBib and should only be populated by the park Permit Coordinator.

NOTE that Topic Areas can be used in conjunction with Keywords to potentially narrow or expand the search.

For example:

Information concerning "peregrine falcons" may include the Topic Area "Birds," which would retrieve records pertaining to all birds, as well as the Keyword "peregrine falcon (Falcon peregrinus)," which would retrieve only those records relating to that bird.

<http://www.nature.nps.gov/nrbib/> - [top](#)

URL Of Online Document

Enter the Uniform Resource Locator (URL), also called an "address," and date accessed for an electronic copy of the work.

For example:

<http://www.nature.nps.gov/> (accessed January 6, 2004)

<http://www.nature.nps.gov/nrbib/> - [top](#)

Volume Identification

Enter the primary designation used by the publisher to identify the units of the work.

For example:

In "North American Indian trade silver, volumes I and II" "North American Indian trade silver" is considered the Title, and "volumes I and II" is considered the Volume.

In "Journal of Sedimentary Petrology 6(4):46-53" "6" is the Volume number, "4" is the Issue number, and "46-53" is the page range.

Additional examples include:

pt. 2

vol. II

III

1st vignette

sheet 7

Appendix F: Beta NatureBib Online Application

The following are a series of screen capture for the upcoming revised version of the NatureBib online application. The new version will eliminate the frames design of the original format and involve a multi-stage design for adding new bibliographic data. Also the *Keyword* field will include a controlled thesaurus vocabulary and the *Author* field will include a controlled names list.

Opening Page: Add New Record-Workform Selection Screen

Choose Work Form - Microsoft Internet Explorer

Address: https://science1.nature.nps.gov/naturebib2/ac/add/selectWorkForm

National Park Service
Nature & Science

My Login :
 ▶ User profile
 ▶ Audit reports
 ▶ Logout

Connect:
 ▶ NP Species
 ▶ NRGIS Metadata
 ▶ Locations
 ▶ Research permit

Admin:
 ▶ Audit reports
 ▶ App doc
 ▶ Database
 ▶ Data access

Help:
 ▶ Workform help
 ▶ Report help
 ▶ Download help
 ▶ Help in Spanish

Feedback »

Nature Bib

Search | Expert Search | Add Citation | Thesaurus

Select workform type

☒ Book
☐ Book chapter
☐ Published report
☐ Unpublished report
☐ Journal article
☐ Map
☐ Conference proceedings
☐ Thesis/Dissertation
☐ Correspondence
☐ Other
☐ Dataset

Submit

Sample New Data Entry Workform Page: *Published Report* Workform

Formal Report basics - Microsoft Internet Explorer

Address: https://science1.nature.nps.gov/naturebib2/ac/add/choose

National Park Service
Nature & Science

My Login :
 ▶ User profile
 ▶ Audit reports
 ▶ Logout

Connect:
 ▶ NP Species
 ▶ NRGIS Metadata
 ▶ Locations
 ▶ Research permit

Admin:
 ▶ Audit reports
 ▶ App doc
 ▶ Database
 ▶ Data access

Help:
 ▶ Workform help
 ▶ Report help
 ▶ Download help
 ▶ Help in Spanish

Feedback »

Nature Bib

Search | Expert Search | Add Citation | Thesaurus

Published report basics

Report title

Series title

Report ID

Number of pages

Packaging method

Publisher

Place of publication

Date of publication (month/day/year)

Sensitivity level

Public ☒ NPS Only ☐ Park/Office Only ☐

URL of online document

URL accessed on

Database system

Topic area (For park permit coordinator)

Save

Sample New Data Entry Page: *Author* Field

author - Microsoft Internet Explorer

Address: https://science1.nature.nps.gov/naturebib2/sc/add/authornext

National Park Service
Nature & Science

NPS > Nature & Science > NatureBib

Search | Expert Search | Add Citation | Thesaurus

Author

My Login:
 User profile
 Audit reports
 Logout

Connect:
 NPSpecies
 NR/GIS Metadata
 Locations
 Research permit

Admin:
 Audit reports
 App doc
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Last name/Corporate name

First name

Suffix

Editor ☐ Yes ☒ No

Author number 1

Add Save

Sample New Data Entry Page: *Keyword* Field (with links to *Thesaurus* and *Scientific Names List* controlled vocabularies)

Keywords - Microsoft Internet Explorer

Address: https://science1.nature.nps.gov/naturebib2/sc/add/keywordnext

National Park Service
Nature & Science

NPS > Nature & Science > NatureBib

Search | Expert Search | Add Citation | Thesaurus

Keyword

My Login:
 User profile
 Audit reports
 Logout

Connect:
 NPSpecies
 NR/GIS Metadata
 Locations
 Research permit

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Feedback

Keyword	Sequence
	1
	2
	3
	4
	5
	6

Link to [Thesaurus](#) [Scientific names list](#)

Add Save

Sample New Data Entry Page: *Link Park* Field

This screenshot shows the 'Link Park' data entry page in the National Park Service NatureBib system. The page is viewed in Microsoft Internet Explorer. The left sidebar contains navigation links for 'My Login', 'Connect', 'Admin', 'Help', and 'Feedback'. The main content area has a header with 'Search', 'Export Search', 'Add Citation', and 'Thesaurus' buttons. Below the header, the 'Link park' section includes dropdown menus for 'Park', 'Network', and 'Office', all currently set to 'none'. There are also text input fields for 'Park specific notes' and 'Park specific abstract', and 'Add' and 'Save' buttons at the bottom.

National Park Service
Nature & Science

NPS>>Nature & Science >>NatureBib

Search Export Search Add Citation Thesaurus

Link park

Park none

Network none

Office none

Park specific notes

Park specific abstract

Add Save

Sample New Data Entry Page: *Link Holding* Field

This screenshot shows the 'Link Holding' data entry page in the National Park Service NatureBib system. The page is viewed in Microsoft Internet Explorer. The left sidebar contains navigation links for 'My Login', 'Connect', 'Admin', 'Help', and 'Feedback'. The main content area has a header with 'Search', 'Export Search', 'Add Citation', and 'Thesaurus' buttons. Below the header, the 'Link holding' section includes dropdown menus for 'Park', 'Network', and 'Office', all currently set to 'none'. There are also text input fields for 'Collection', 'Call number', 'ANCS+', 'File code', and 'Location', and 'Add' and 'Save' buttons at the bottom.

National Park Service
Nature & Science

NPS>>Nature & Science >>NatureBib

Search Export Search Add Citation Thesaurus

Link holding

Park none

Network none

Office none

Collection

Call number

ANCS+

File code

Location

Add Save

Sample New Data Entry Page: *Abstract* and *Notes* Fields

The screenshot shows a web browser window titled "Notes - Microsoft Internet Explorer". The address bar displays "https://science1.nature.nps.gov/naturebib2/ac/add/notesnext". The page header includes the National Park Service logo and "Nature & Science". A sidebar on the left contains sections: "My Login" (User profile, Audit reports, Logout), "Connect" (NPSpecies, NR/GIS Metadata, Locations, Research permit), "Admin" (Audit reports, App doc, Database, Data access), and "Help" (Workform help, Report help, Download help, Help in Spanish). The main content area has a "NatureBib" header with tabs for "Search", "Export Search", "Add Citation", and "Thesaurus". Below the tabs, the "Abstract/Notes" tab is active, showing a "Citation abstract" field and a "General notes" field, both with vertical scrollbars. A "Save" button is at the bottom right of the notes field.

Sample *Simple Search* Page

The screenshot shows a web browser window titled "Search Form - Microsoft Internet Explorer". The address bar displays "https://science1.nature.nps.gov/naturebib2/ac/search/next". The page header includes the National Park Service logo and "Nature & Science". A sidebar on the left is identical to the previous page. The main content area has a "NatureBib" header with tabs for "Search", "Export Search", "Add Citation", and "Thesaurus". Below the tabs, the "Simple search" tab is active. The search form includes a "Find Bibkey ID" field, a "Search" button, and a section for "Enter an author, keyword or title". Below this, there are dropdown menus for "Find" (Lake Mead National Recreation Area (LAME), Mississippi National River & Recreation Area (MISS), Rocky Mountain National Park (ROMO), Yellowstone National Park (YELL)), "Pick a Park" (radio buttons for "Or" and "And"), "Pick an NPS Office" (AD, Administration (ADADMIN), Denver Service (DSC), Pacific West Region (PWRO), Southern Arizona (SOAR)), "Pick an NPS Network" (Appalachian Highlands Network (APHN), Arctic Network (ARCN), Central Alaska Network (CAKN), Chihuahuan Desert Network (CHDN)), and "Pick a Status Type(s)" (New, Deleted, Flagged, Reviewed) with a "Search" button.

Sample *Advanced Search* Page

Search Form - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://science1.nature.nps.gov/naturebib2/ac/expertsearch/text>

National Park Service
Nature & Science

Nature Bib

NPS >> Nature & Science >> NatureBib

My Login :
 > User profile
 > Audit reports
 > Logout

Connect!
 > NPSpecies
 > NR/GIS Metadata
 > Locations
 > Research permit

Admin:
 > Audit reports
 > App doc
 > Database
 > Data access

Help:
 > Workform help
 > Report help
 > Download help
 > Help in Spanish

Feedback »

Search Expert Search Add Citation Thesaurus

Expert Search

Search

Author Contains [] Or And

Author Contains [] Or And

Author Contains [] Or And

Author Contains [] Or And

Author Contains [] Or And

Author Contains [] Or And

Year from [] to [] Limit by All workforms Limit by All Databases

Pick a Park To select multiple parks, hold down SHIFT or CTRL key while making selections.

Lyndon Baines Johnson Memorial Grove on the Potomac(LYBA)
 Acadia(ACDA)
 Boston Harbor(BOHA)
 Rocky Mountain(ROMA)

Or And

Pick an NPS Office/Network To select multiple offices or networks, hold down SHIFT or CTRL key while making selections.

All Offices
 AD, Administration (ADADMIN)
 AD, Cultural Resource Stewardship & Partnerships (ADCRSP)
 AD, Natural Resource Stewardship & Science (ADNRSS)

Topic area Populated by Park Research Permit Coordinator None

Search

Done Internet